Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

FOR QUALITY & EXCELLENCE IN HIGHER EDUCATION
Accredited by NAAC

BUB/CTE/2014-15

Date: 19-05-2014

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.
{Project*: Improvements and providing concrete roads to defiance colony in Ward No.14}

Ref.: Letter No. Testing/BUB/2014-15, dated 15-05-2014.

Sample supplied to lab by: M/S Dhruva Enterprrises. Contractor, Bangalore.

Report required for : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.00	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.20	60-95	75-100	85-100	
01.18	76.30	30-70	55-90	75-100	
600. mic	49.00	15-34	35-59	60-79	
300.mic	18.30	5-20	8-30	12-40	
150.mic	3.40	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.45%	Not more than 8%
2.	Specific Gravity	----	2.57	-------

*As Furnished by Client.

The Results relate only to the items tested.

19/05/2014

Dr. MANJESH .L
ME (Civil Engg .), Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnahabharathi Campus
BANGALORE- 560 056
e- mail manjeshl@yahoo.com

G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Compus
BANGALORE UNIVERSITY
Bangalore-560 056.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15 Date: 23-05-2014

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements and providing concrete road to defiance colony in Ward No.14}

Ref.: Letter No. Testing/BUB/2014-15, dated 15-05-2014

Sample supplied to lab by: M/S Dhruva Enterprrises. Contractor, Bangalore.

Report required for : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 16-05-2014 to 22-05-2014

SL No	Name of Test	Results	Requirements as per IS 12269-1987
		Cement Sample	
1	Initial setting time	135 min	Shall not be less than 30 min
2	Final setting time	240 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.30%	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.50 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	29.70 N/Sq mm 43.80 N/Sq mm	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As Furnished by Client.

The Results relate only to the items tested.

23/05/2014

G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Campus
BANGALORE UNIVERSITY
Bangalore-560 056.

Dr. MANJESH .L
ME (Civil Engg .). Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e-mail manjeshl@...

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬೆಂಗಳೂರು ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

FOR QUALITY & EXCELLENCE IN HIGHER EDUCATION
Accredited by NAAC

BUB/CTE/2014-15 **Date: 19-05-2014**

1. TESTING OF COARSE AGGREGATES (40 mm):

Sub: Testing of Coarse Aggregates.
{Project*: Improvements and providing concrete roads to defiance colony in Ward No.14}

Ref.: Letter No. Testing/BUB/2014-15, dated 15-05-2014
Sample supplied to lab by: M/S Dhruva Enterprrises. Contractor, Bangalore.
Report required for : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing 40 mm Sample	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
		Single size	*Graded*
40mm	97.60	85-100	95 – 100
20mm	68.70	0 -20	30- 70
10mm	24.00	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	12.40 %	Not to exceed 25 %
2.	Crushing value	----,,----	26.30 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As Furnished by Client.
The Results relate only to the items tested.

19/05/2014

G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Compus
BANGALORE UNIVERSITY
Bangalore-560 056.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Dr. MANJESH .L
ME (Civil Engg .). Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e- mail. manjeshl@yahoo.com

Scanned by CamScanner

Phone Off: 080-22961935 / 1946
E-mail: centrans9@gmail.com

BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2014-15

DATE: 23-06-2014

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28 days Compressive Strength).
{Project*: Improvements and providing concrete roads to defiance colony in Ward No.14}

Ref.: Letter No. Testing/BUB/2014-15, dated 21-06-2014

Sample supplied to lab by: M/S Dhruva Enterprrises. Contractor, Bangalore.

Report required for : Assistant Executive Engineer, T.Dasarahalli Sub Division, BBMP, Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-05-14	21-06-14	28	22500	500	22.22	**22.44**
	002	"	"	"	"	510	22.66	
	003	"	"	"	"	500	22.22	

*As Furnished by Client.

The Results relate only to the items tested

G.R. HARISH
Professor
Department of Civil Engineering
Jnana Bharathi Compus
BANGALORE UNIVERSITY
Bangalore-560 056.

21/06/2014
Dr. MANJESH .L
ME (Civil Engg .). Ph D MISTE.MIRC
Associate Professor
Department of Civil Engineering
Bangalore University Jnanabharathi Campus
BANGALORE- 560 056
e- mail. manjeshl@yahoo.com

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner